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| Communicating what we know about: Improper Integrals | |
| Improper Integral | Table(s) |
| Rewrite as a limit & evaluate as much as you can: | Use fnInt to evaluate the proper integrals. Use this to estimate the value of the Improper Integral.   |  |  | | --- | --- | | R |  | | 1 |  | | 2 |  | | 3 |  | | 4 |  | | 5 |  | | 10 |  | | 100 |  | | 1000 |  | |
| Graphs | Communicate |
| a.) Draw a set of appropriate axes.  b.) Graph the function in the integral.  c.) Shade the area under the curve. | 1. What is an improper integral? 2. According to your estimates, what is the value of the integral? 3. Describe how you solve an **improper integral** like the one on this sheet. |

**AP Exam Problems – Improper Integrals**

You should be able to complete the following problem:



These problems draw the connection between Improper Integrals and Infinite Series



